AJAX

ReX 2

Radio signal range extender supporting alarm photo verification.

An Ajax hub is required for operation. Find the list of compatible hubs on the official website.

https://ajax.systems/support/devices/rex-2

Grade 2 EN 50131   PD 6662:2017

Features

Doubles the communication range of MotionCam detectors.

Up to 38 hours on backup battery.

Frequency hopping against jamming.

Tampering alarm.

Over-the-air updates.

Pairing with the Ajax security system via QR code.

Communicates with a control panel and Ajax devices at the range of up to 1,700 m via Jeweller and Wings radio protocols.

Remote setup and control.

Photo verification of alarms for large and complex facilities

ReX 2 makes security systems with MotionCam detectors even more flexible and scalable. Supporting both proprietary radio protocols—Jeweller and Wings—ReX2 is an ultimate range extender for Ajax security systems, helping to increase its coverage up to 35 km². Regardless of the property size, alarms are transmitted in 0.3 seconds, and the first photo is delivered in under 18 seconds[1].

Up to 35 km² coverage[2]

Alarm transmission in 0.3 seconds

Photo verification in 18 seconds

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[1] With a hub communicating with Ajax Cloud via LTE or Ethernet

[2] With 5 range extenders in a system

Guaranteed delivery of alarms and photo confirmations

Jeweller

We have developed Jeweller radio protocol to ensure the continuous operation of all devices within the security system. Jeweller provides two-way communication between ReX 2 and connected devices at a distance of up to 1,700 meters. Jeweller uses time frames to synchronize communication with connected devices, authentication to eliminate forgery, and encryption to protect against data leaks.

Wings

Wings is a radio protocol developed for fast transmission of visual data over vast distances. ReX 2 uses dedicated antennas to improve channel reliability. Built-in algorithms of package checking and re-uploading allow Wings to deliver photos at a distance of up to 1,700 meters, even if the signal level is unstable.

Tech Specs

General

Colour	white, black	Installation	indoor
Compatibility	Hub 2, Hub 2 Plus	Compliance	EN 50131 (Grade 2) PD 6662:2017

Communication

Communication protocols	Jeweller: two-way encrypted communication of event and alarms Wings: two-way encrypted communication of photo verifications	Radio communication range	up to 1,700 m

Frequency band	868.0−868.6 MHz 868.7−869.2 MHz 863.0−870.0 MHz (depends on the region of sale)	Maximum effective radiated power (ERP)	≤ 20 mW
Alarms delivery speed	0.3 seconds	Photos delivery speed	18 seconds (default settings)

Power supply

Power supply	110−240 V, 50/60 Hz	Backup power supply	Li-Ion 2 Ah (up to 38 hours of autonomous operation)

Antisabotage protection

Tampering alarm	+	Pings	12−300 sec (set by users in the app)
Frequency hopping	+	Protection against forgery	+

Body and complete set

Operating temperature range	from −10°C to +40°C	Operating humidity	up to 75%
Overall dimensions	163 × 163 × 36 mm	Weight	410 g
Complete set	ReX 2 SmartBracket mounting panel Power supply cable Installation kit Quick start guide		